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# Moving Education IN2 the Future: Creating the Next Generation of Innovators

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# in2

## Moving Education IN2 the Future: Creating the Next Generation of Innovators

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IMSA INNOVATION HUB

  
Illinois Mathematics and Science Academy

  
IMSA®

Lawrence Bergie, Britta McKenna & Evan Sun



# outline

- I> IN2, a next big thing at IMSA – Britta McKenna
- II> Meet Evan Sun, IMSA junior and next generation innovator
- III> IN2 Technology – Lawrence Bergie
- IV> IN2 Programming – Britta McKenna
- V> Q & A

# outline

- I> IN2, a next big thing at IMSA –  
Britta McKenna [LINK](#)
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# in<sup>2</sup>

Steve and Jamie Chen  
Center for Innovation & Inquiry

“IN2” is a highly conceptual name that plays upon the idea of both innovation and inquiry—bridging businesses and the educational focus at IMSA. It also extends the current name assets at IMSA, metaphorically extending the mission.

It plays on the concept of bringing both innovation & inquiry into practice at IMSA and on the concept of what is put “into” the center to make things happen—ideas, intuition, exploration, knowledge, experimentation, etc.

It is short, memorable and easy to say. It leaves room for curiosity and play without having to explain too much.

The three lines composing the “2” represents the different journeys of students through time and the paths that come together at IMSA through innovative practices, inquisitive learning, and problem-solving processes.

LimeRed Studio

# types of innovation hubs

incubator (1871)

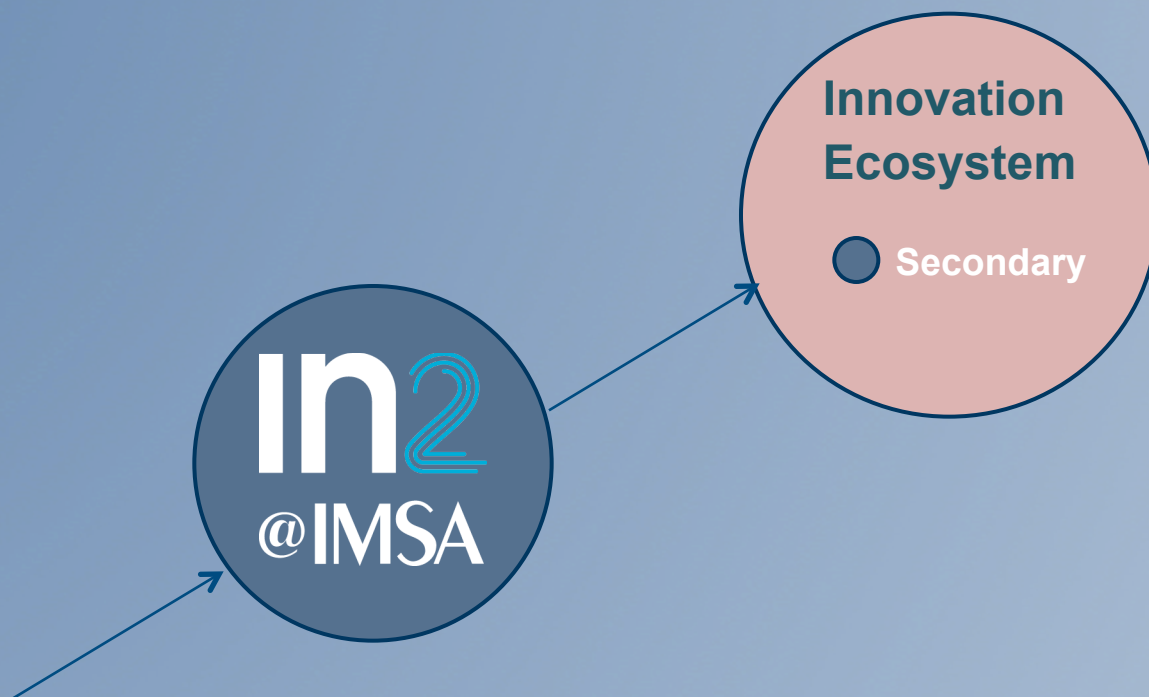
accelerator (Techstars)

co-working (25N, WeWork, Metropolitan Co-Working)

university labs (IIT Idea Shop, CIE, Garage)

federal labs (Argonne, Fermilab)





IN2 adds the first secondary school link to the Innovation pipeline in Illinois

# learning from others



1871

State Farm Next Door (industry)  
Chicago Public Library (Maker Space)  
IIT Idea Lab  
CIE – Chicago Innovation Exchange  
MIT Media Lab (Boston)  
Harvard Innovation Lab (Boston)  
Northwestern University, Garage  
Silicon Valley  
Greentown Labs (Boston)  
Artists' Asylum (Boston)  
Purdue (Foundry & Anvil)  
NIU  
University of Illinois



# ...so what will IN2 be?

*Think of it as a recipe for STEM innovation:*

- 3 parts incubator
- 2 parts program curriculum
- 1 part accelerator
- A dash of co-working
- flavored with university and federal lab collaboration
- and generous amounts of engagement with the community (alumni, parents, alumni faculty-staff, non-profits, partner schools and cities, entrepreneurs & experts)
- As with all recipes, we won't know how it tastes until it comes out of the oven... and then we'll be back in the kitchen to make the next batch better)

# practicing connected learning (Sam Dyson, the HIVE) 2015 NSTA conference

## **3 learning principles:**

1. Interest powered
2. Peer supported
3. Academic, career, civic payoff

## **3 design principles:**

1. Production-oriented (ways to showcase)
2. Openly networked (many contributors)
3. Shared purpose (mentor to student, student to mentor)



# creating a “third space” for the community

(Ray Oldenburg, Ph.D, Project for Public Spaces)

“The character of a third space is determined most of all by its regular clientele and is marked by a playful mood, which contrasts with people’s more serious involvement in other spheres. Though a radically different kind of setting for a home, the third place is remarkably similar to a good home in the psychological comfort and support that it extends...They are the heart of a community’s social vitality, the grassroots of democracy, but sadly, they constitute a diminishing aspect of the American social landscape.”

# creating HOMAGO spaces

(Hanging Out, Messing Around and Geeking Out)

# timeline

2014

2015

2016

the gift

design

naming/branding

fund raising

>public phase

>construction

awareness

in<sup>2</sup>  
@IMSA

# What can IN2 provide your organization?

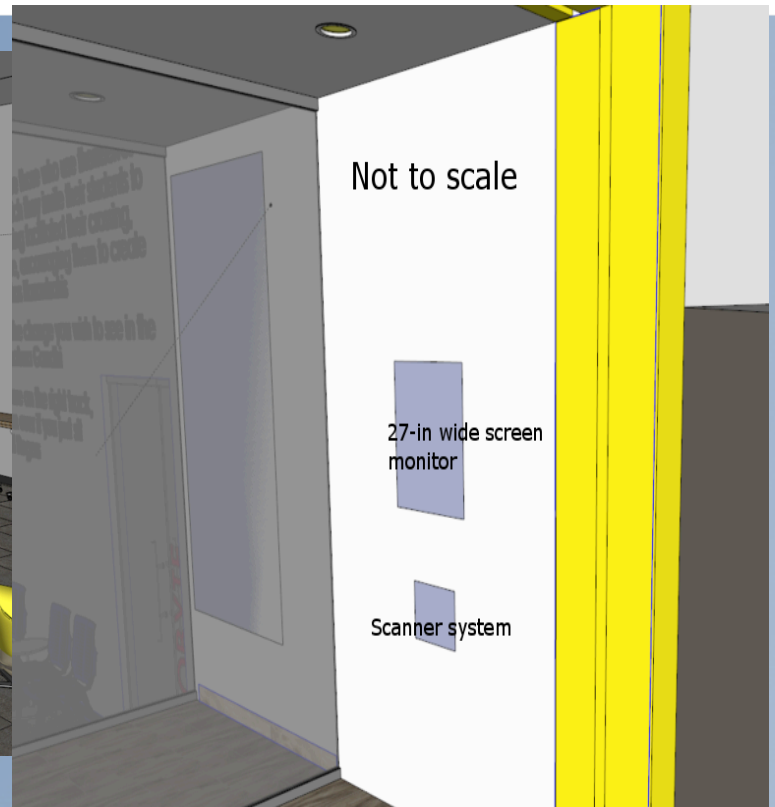
- Be a spoke on our wheel
- Join and take advantage of partnerships and relationships
- Try new technology
- Join a problem team
- Use the idea bar to move your ideas forward
- Professional development and skills development
- Workshop and program offerings for your students
- **What else is up to you...**

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# My Story 1





**in<sup>2</sup>**  
**MAKERSQUAD**











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GET STARTED



What is IN2? 2



# A Space for Experimentation and Failure





# A Place to Find Your Niche



# **An Opportunity for Student Leadership**

“

*As human beings, our genius lies not  
in predicting the future but in  
imagining and creating it. It is the  
nature and quality of our thinking  
that shapes who we become, and  
who we become shapes the world*

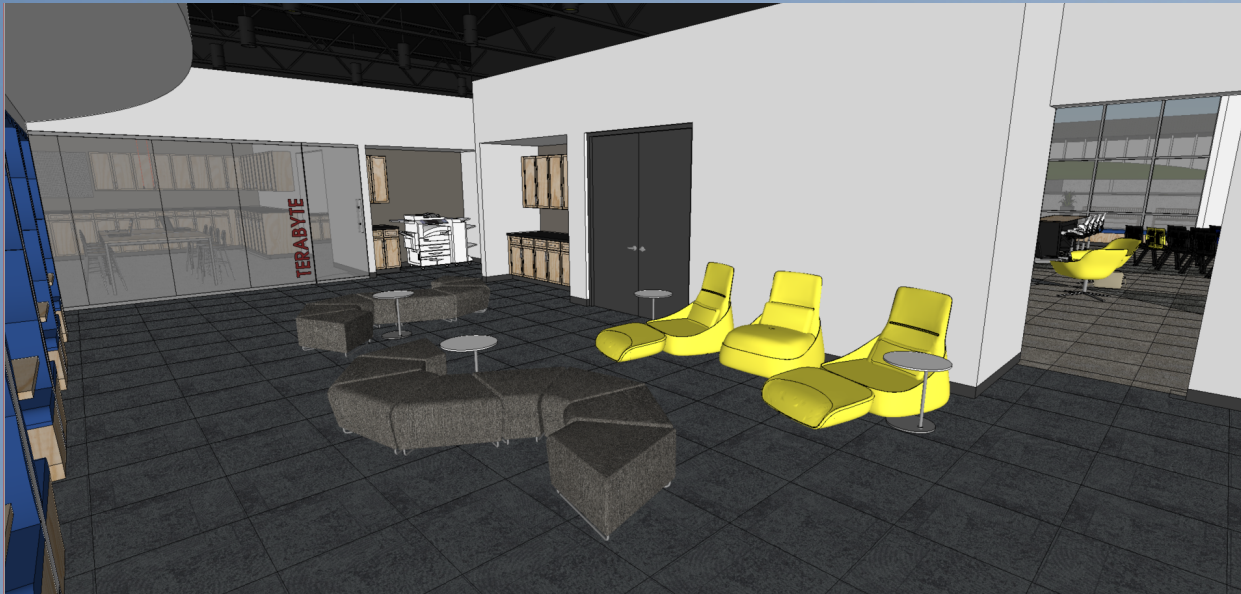
-Stephanie Pace Marshall, Founding President of  
IMSA

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# IN2 technology



- Open workspaces
- Enclosed workspaces
- Open media space
- Design space
- Prototyping space

*Gigabit Internet via OnLight Aurora*

*Video conferencing*

*Partner technology – changed as  
technology advances*

# Open spaces

Activity walls

Presentation support

Telecommunications

Project profiles

Idea stations

Wireless Internet



# Enclosed spaces



Audio/Video

Telepresence

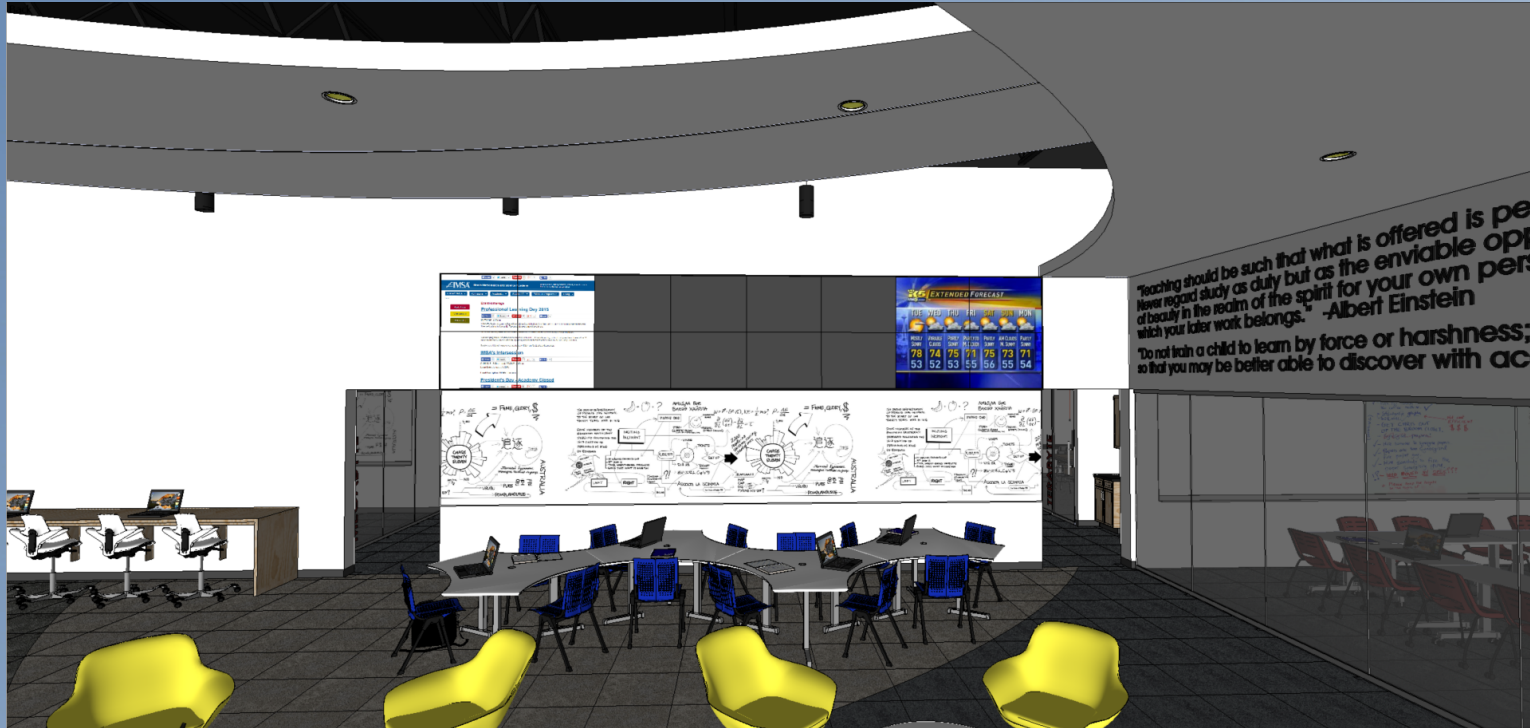
Wireless Internet

Interactive storyboards

Screen & video capture



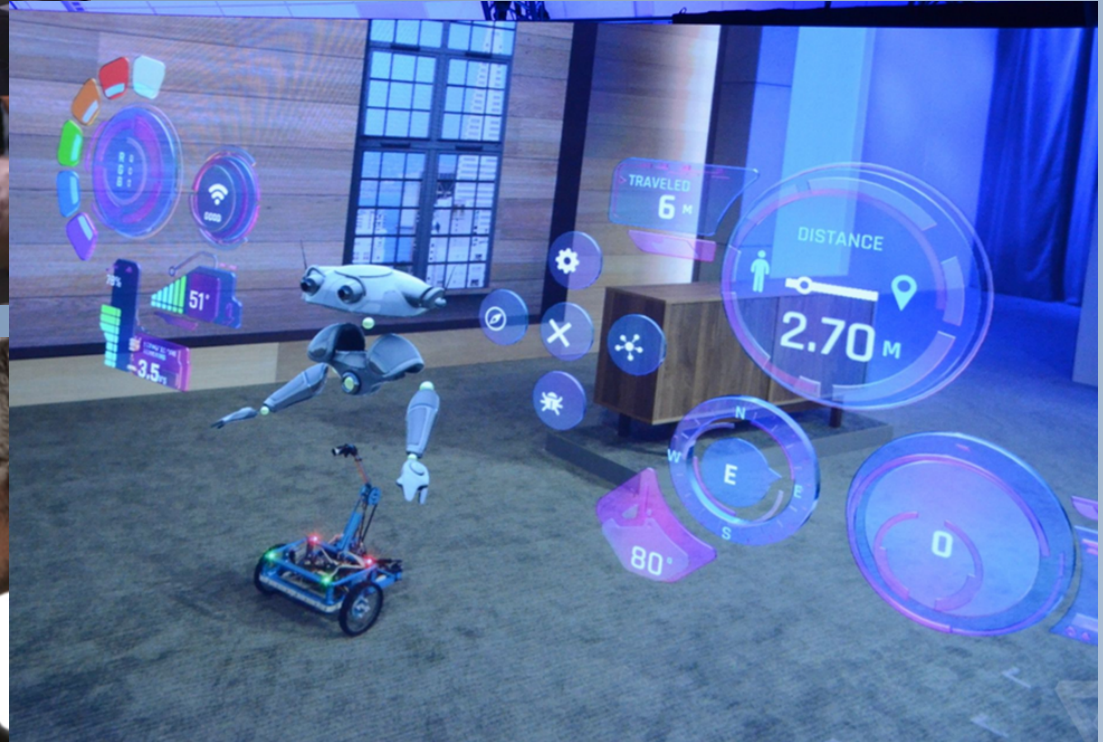
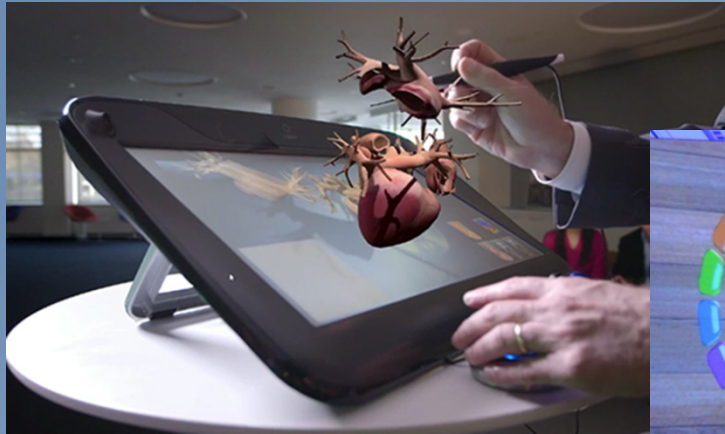
# Open media space



*A media wall will be used for many purposes as needed but will be active 24/7 and viewable through the glass exterior wall*



# Design space



# Prototyping space

3D scanners

3D printers

Electronics tables

Basic tools

Prototype software

Access to contiguous  
dirty prototype space



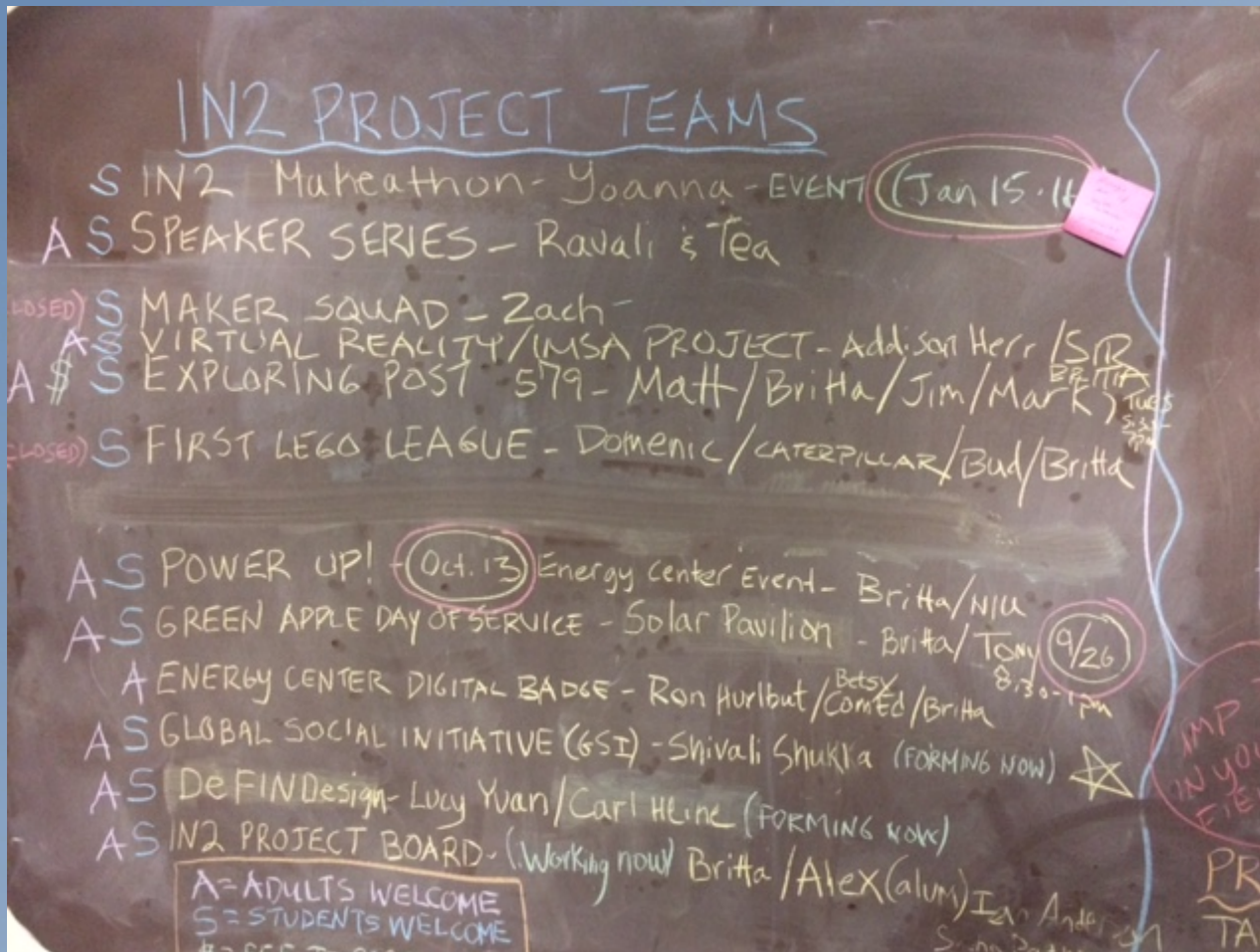


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# IN2 programming

Open to Innovators and entrepreneurs of all ages



- Summer Camps
- Professional Development
- Workshops
- Conferences
- Hackathons
- Try-it Tuesdays
- Demo bench
- Project and problem teams
- Speaker Series
- Design Thinking
- TALENT for external students...



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*thank you!*

join **In<sup>2</sup>** on social media...

or leave your card to be added to mailing list



IN2IMSA



IN2 (Group page)



IN2 (group)



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